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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,029	08/22/2003	John E. Amato	112518.00004 1693	
26707 75	590 09/27/2004		EXAMINER	
QUARLES & BRADY LLP RENAISSANCE ONE			TRINH, HOA B	
	CENTRAL AVENUE		ART UNIT PAPER NUMBER	
PHOENIX, AZ 85004-2391			2814	
			DATE MAIL ED: 00/27/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			G.V.			
c	Application No.	Applicant(s)				
	10/647,029	AMATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vikki H Trinh	2814				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence addres	S			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed ys will be considered timely. the mailing date of this commur ED (35 U.S.C. § 133).	nication.			
Status		•	•			
1) Responsive to communication(s) filed on						
· _ ·	 action is non-final.					
3) Since this application is in condition for allowa		osecution as to the me	rits is			
· ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-30</u> are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	,	-	` '			
11) ☐ The oath or declaration is objected to by the E	kaminer. Note the attached Office	Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 	s have been received.					
3. Copies of the certified copies of the prior	• •		ie			
application from the International Burea	<u>-</u>					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2)	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152))			
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-9, drawn to a method of making a closed cell, classified in class 438, subclass 218.
 - II. Claims 10-18, 24-25, drawn to a method of making a semiconductor device, classified in class 438, subclass 259.
 - III. Claims 19-23, drawn to a method of inhibiting removal of conductive material, classified in class 438, subclass 221.
 - IV. Claims 26-30, drawn to a semiconductor device, classified in class 257, subclass330.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II, IV and I, III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not need to include the step of forming a protective layer or the step of inhibiting the removal of the conductive material. The subcombination has separate utility such as an isolation device.

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3. Inventions I and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as a capacitor. See MPEP § 806.05(d).

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- 4. Inventions II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process such that the steps include selective etching of the trench and planarizing the area around the intersection.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Vikki Trinh whose telephone number is (571) 272-1719. The Examiner can normally be reached from Monday-Friday, 9:00 AM - 5:30 PM Eastern Time. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Wael Fahmy, can be reached at (571) 272-1705. The office fax number is 703-872-9306.

Any request for information regarding to the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Also, status information for published applications may be obtained from either Private PAIR or Public Pair. In addition, status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspro.gov. If you have questions pertaining to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Lastly, paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for

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information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Vikki Trinh, Patent Examiner AU 2814

> LONG PHAM PRIMARY EXAMINER